

Научно-исследовательский институт биологии

Մանրէաբանության, կենսաէներգետիկայի և կենսատեխնոլոգիայի

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Научный сотрудник

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Growth and hydrogen production by *Escherichia coli* during utilization of sole and mixture of sugar beet, alcohol, and beer production waste

Kairat Bekbayev, Satenik Mirzoyan, Akerke Toleugazykyzy, Dinara Tlevlessova, Anait Vassilian,

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Biomass Conversion and Biorefinery 2024 909-919

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Relationship between proton/ potassium fluxes and central carbon catabolic pathways in different *Saccharomyces cerevisiae* strains under osmotic stress conditions

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Coffee silverskin as a substrate for biobased production of biomass and hydrogen by *Escherichia coli*

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Proceedings of the YSU B: Chemical and Biological Sciences 2021 255-265

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Proceedings of the YSU B: Chemical and Biological Sciences 2021 224-231

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International Journal of Hydrogen Energy 2020 17233-17240

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Hydrogen production by Escherichia coli during anaerobic utilization of mixture of lactose and glycerol: enhanced rate and yield, prolonged production

Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2019 9272-9281

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H₂ PRODUCTION AND ROLE OF HYDROGENASES IN ESCHERICHIA COLI BATCH CULTURES DURING FERMENTATION OF MIXTURE OF GLYCEROL AND ACETATE AT DIFFERENT pHs

Mirzoyan S.

Biological Journal of Armenia 2019 66-73

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Prolongation of H₂ production during mixed carbon sources fermentation in E. coli batch cultures: New findings and role of different hydrogenases

Satenik Mirzoyan, Anait Vassilian, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2018 8739-8746

<https://www.sciencedirect.com/journal/international-journal-of-hydrogen-energy/...>

Статья

Role of hydrogenases 3 and 4 in Escherichia coli growth and H₂ producing hydrogenase activity during anaerobic utilization of lactose

Satenik Mirzoyan, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2018 18151-18159

Статья

Evidence for hydrogenase-4 catalyzed biohydrogen production in Escherichia coli

Satenik Mirzoyan, Pablo Maria Romero-Pareja, Maria Dolores Coello, Armen Trchounian,

Karen Trchounian

International Journal of Hydrogen Energy 2017 21697-21703

<http://www.journals.elsevier.com/international-journal-of-hydrogen-energy/>

Статья

Hydrogen production by Escherichia coli growing in different nutrient media with glycerol: Effects of formate, pH, production kinetics and hydrogenases involved

Karen Trchounian, Satenik Mirzoyan, Anna Poladyan, Armen Trchounian

International Journal of Hydrogen Energy 2017 24026-24034

<http://www.journals.elsevier.com/international-journal-of-hydrogen-energy/>

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